### SPRINGS ARE IMPORTANT FACTOR TO AUTOMOBILE

Complaints of Average Car Might Be Attributed to Neglect.

of the springs," declares II. M. Figgatt, manager for Harper otor Company, Inc., local dealer in four and six-cylinder modlocked brakes come of this neglect.

"Springs perform very definite functions. They soften and scatter roadshocks and hold the axles in allgument, thereby have considerable influence on the steering; wheel service. Program will be an alignment, tire wear, and to a de-nounced in next week's issue of Raaction are transmitted to the frame through the springs.

"A periodical spring inspection fol-

# **AUTO INDUSTRY FACTOR**

Heavy Shipping of Motor Cars, Parts, Steel and Road Material.

rom main factories and assembling clants during the past year reached he record figure of approximately 00,000 carloads, transporting 1,700.

00 machines, as reported by William E. Metzger, chairman traffic ommittee. National Automobile hamber of Commerce, to the directors meeting of that association reently. In addition to this, over 750.

00 machines were driven away by lealers from factories and assembfrom factories and assemb-

sult of motor car manufacture

teen thousand new hox cars

## **EXPECT INTERNATIONAL COMMUNICATION BY HAMS**

New System of Calls Must Be Worked Out to Avoid Trouble.

Regular international communica-tion among amateurs is looked upon as so dear at hand that already plans are being discussed for unified system of call signls throughout the world.

The present method of communi-

The present method of communicating among amateurs is efficient only as it is confined to one country. But let an amateur of one land try to call one of another country, and there is confusion.

This is because of the similarity in divisional call numbers allotted to the districts of each country. For example, the United States has nine radio districts. Each amateur is allotted a call letter which he has to use in communication with the number of his district, 2NAK, for instance, is amateur NAK in district 2. &BK is BK in district 8. If the first wants to call the other he signs &BK de 2NAK.

But amateurs in England also have the number 2 before their call letters. And those in France have number 8 preceding their individual call letters.

number 8 preceding their individual call letters.

So that with transatlantic communication established, if the signal 8BK de 2NAK is flashed, four possible calls might be meant. District 2 in America might be calling France, England might be calling district 8 in America, or district 2 in America might be calling district 8 in America, or district 2 in America might be calling district 8 in the same country.

This possibility of confusion in amateur calls has aroused the American Radio Relay League—the American amateur organization—to seek an international system of amateur calls. French amateurs also are considering this plan and they have appointed a commission to devise some system by which no confusion in international calls could be possible.

Several plans have been suggested.

sible.

Several plans have been suggested, but none has been approved. Some of these are objectionable because of the large amount of work and expense they would entail in the process of changing the amateur calls already allotted. Others could not be found elastic enough to include farture possibilities in radio calls. cuture possibilities in radio calls.

#### TODAY'S **RADIO**

10:45 A. M.—Services of the East End Christian Church, Rev. John thay Ewers, in the pulpit.

2 45 P. M.—Children's Hible Story
by Rev. W. A. Logan, of the Alpha
Lutheran Church. 3 P. M.-Handel's "Messlah," to be

Episcopal Church, Shady Avenue, Pittsburgh, Pa., Rev. E. J. van Etten.

Midnight A Apecial Christmas

(Newark, N. J.)

16:30 A. M.—Musichl program.

11 A. M.—Morning services and sermon at St. Thomas Church, Fifth

7.39 P. M.—"Peace," by Hug Black, Union Theological Seminar; New York City.

(Chicago, III)

3:39 P. M.-Radio charel services
conducted by Rev. John Henry Honkins, of the Episcopal Church of the

NEW YORK POLICE USE RADIO TO ENTERTAIN

partment is not limited to broad casting information for the appro-sension of criminals and the recov-ery of stolen property alone. For Police Commissioner Enrigh announces he will furnish an enter

Brennan, superintendent of

telegraph.
So, you radio listeners, who are within range of New York, time in on WLAW-350 meters—for a Christmas entertainment.

#### VETERAN CARS SCORE RELIABILITY RECORDS

Studebakers, Previously Driven 1,333,403 Miles, Make Remarkable Showing.

A remarkable test of motor ca economy and reliability in which nin-veterans of motordom participated iven by prominent soloists, toketh-r with chorus, with KDKA Little ymphony Orchestra.

4.15 P. M.—Vesper Services of the hadsaide Presbyterian Church, service, a total of 1,233,103 miles—an

CONTRACTOR CONTRACTOR

The car with the 250,000-mile record took second honors in economy among the nine competing. The nighest economy record was secred by a Big-Six which had 25,000 miles

NEW SALES DIRECTOR FOR THE CHALMERS

FOR ANNUAL MEETING

AUTO DEALERS READY

# MOON

To Our Patrons, Friends and the Good World at Large, We Wish You a

Merry Christmas and a Happy New Year

Baughan Motor Sales Co.,

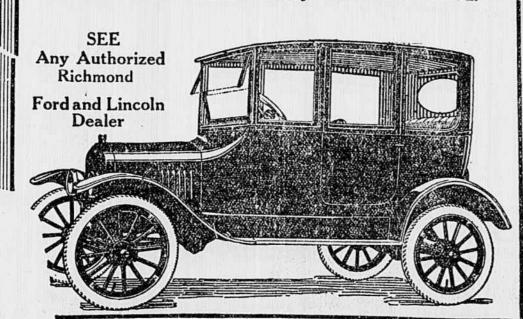
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Incorporated 114 West Broad.

F.O. B. Detroit

Completely Equipped

At the new low price the Ford Sedan will give you even greater value than ever before. It provides enclosed car comfort in a dependable, quality product at a minimum cost. Your order placed now will insure reasonably prompt delivery. Terms if desired.



Richmond Motor Co., Inc. Universal Motor Co., Inc.

Kirkmyer Motor Co. Hearn Motor Co., Inc.

heen subjected to perhaps the most severe service of any of the nine in the year 1922 the National Automobile Dealers Association has had a round-trips daily between Los corps of field men developing the one Angeles and Santa Harbara. Both



MONG our assets we like to count the only one that money cannot buy-your good-will. And so at this Holiday Season we extend to you-not as a customer alone, but as a friend -the Best of Wishes for the coming year.

Universal Service Station

2013 W. Broad Street.



You and Yours This Christmas Day 3 Jones Motor Car

May

the Light of

Happiness

Shine on

Co., Inc. 1651 West Broad.

Merry Christmas

# A. R. TILLER

LEXINGTON DISTRIBUTOR.

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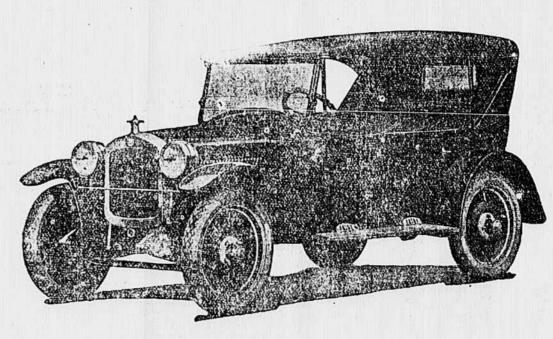
Here's Wishing My Friends

and

A MERRY XMAS

A HAPPY NEW YEAR

Newly Authorized Service and Repair Dealer. "Where Your Car Gets MY Personal Attention.



# Hupmobile Special Reflects Brilliant Performance

This Hupmobile Special Touring-as well as the Special Roadster,-truly reflects the brilliant, dashing performance for which the Hupmobile is noted.

Disc wheels; special brown top; aluminum scuff-plates on running board; nickel-plated radiator, cowl lamps, and barrel headlamps, are some of the items which give the Special a smarter style.

The Roadster, in addition to these high class features, is also supplied with nickel-plated bars on the rear deck, and a tilted tire carrier.

Both the Special Touring and

the Special Roadster, are priced \$1250, f. o. b. Detroit.

We believe that those who demand a moderate departure from the strictly conventional, will welcome these two Hupmobile Specials.

Satisfaction with the more distinguished appearance of these models must always be secondary, however, to the deeper, satisfaction which has its roots in the remarkably low cost, reliable service which the Hupmobile gives over a long period of years.

Come in and see these Hupmobile Specials,-ride in themdrive them. Or, better still, let us come to your home or office for a demonstration. 'Phone now.

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1837 West Broad Street.

Hupmobile

